

Use environment variables

Incorporating environment variables into your Handler Functions is a key aspect of managing external resources like S3 buckets.

This section focuses on how to use environment variables to facilitate the uploading of images sto an S3 bucket using RunPod Handler Functions.

This will go through the process of writing Python code for the uploading and setting the necessary environment variables in the Web interface.

Prerequistes

- Ensure the RunPod Python library is installed: pip install runpod.
- Have an image file named image.png in the Docker container's working directory.

Python Code for S3 Uploads

Let's break down the steps to upload an image to an S3 bucket using Python:

1. **Handler Function for S3 Upload**: Here's an example of a handler function that uploads image.png to an S3 bucket and returns the image URL:

```
from runpod.serverless.utils import rp_upload
import runpod

def handler(job):
   image_url = rp_upload.upload_image(job["id"], "./image.png")
   return [image_url]

runpod.serverless.start({"handler": handler})
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```

2. **Packaging Your Code**: Follow the guidelines in Worker Image Creation for packaging and deployment.

Setting Environment Variables for S3

Using environment variables securely passes the necessary credentials and configurations to your serverless function:

- 1. **Accessing Environment Variables Setting**: In the template creation/editing interface of your pod, navigate to the bottom section where you can set environment variables.
- 2. **Configuring S3 Variables**: Set the following key variables for your S3 bucket:
 - BUCKET_ENDPOINT_URL
 - BUCKET_ACCESS_KEY_ID
 - BUCKET_SECRET_ACCESS_KEY Ensure that your BUCKET_ENDPOINT_URL includes the bucket name (e.g., https://your-bucket-name.nyc3.digitaloceanspaces.com, https://your-bucket-name.nyc3.digitaloceanspaces.com).

Testing Your API

Finally, let's test the serverless function to confirm that it successfully uploads images to your S3 bucket:

1. **Making a Request**: Make a POST request to your API endpoint with the necessary headers and input data. Remember, the input must be a JSON item:

```
import requests

endpoint = "https://api.runpod.ai/v2/xxxxxxxxx/run"
headers = {"Content-Type": "application/json", "Authorization": "Beare input_data = {"input": {"inp": "this is an example input"}}

response = requests.post(endpoint, json=input_data, headers=headers)
```

2. **Checking the Output**: Make a GET request to retrieve the job status and output. Here's an example of how to do it:

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```
response = requests.get(
    "https://api.runpod.ai/v2/xxxxxxxxx/status/" + response.json()["id headers=headers,
)
response.json()
```

The response should include the URL of the uploaded image on completion:

```
{
  "delayTime": 86588,
  "executionTime": 1563,
  "id": "e3d2e250-ea81-4074-9838-1c52d006ddcf",
  "output": [
      "https://your-bucket.s3.us-west-004.backblazeb2.com/your-image.png
],
  "status": "COMPLETED"
}
```

By following these steps, you can effectively use environment variables to manage S3 bucket credentials and operations within your RunPod Handler Functions. This approach ensures secure, scalable, and efficient handling of external resources in your serverless applications.

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